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L12 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
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                           116:214837
 TITLE:
                           Preparation of cyanoalkylated glycosides as
                           surfactants and their intermediates
 INVENTOR (S);
                           Mizushima; Yosen; Yamamuro, Akira; Yokota, Yukinaga;
                           Oya, Naohiro
                           Kao Corp., Japan
Jpn. Kokai Tokkyo Koho, 12 pp
 PATENT ASSIGNEE (S):
                           CODEN: JKXXAF
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                           Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
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                                               APPLICATION NO.
     JP 03287596
                                               JP 1990-91204
                                  .19911218
PRIORITY APPLN. INFO.:
                                               JP 1990-91204
     Entered STN: 31 May 1992
     The title glycosides A(Gn) [(R10)xB]y (Gn = sugar residue derived by
     removing H's from all the glycosidic and nonglycosidic OH's of a C5-6
     reducing sugar or its condensate with average degree of condensation n = 1-10;
     A = R2(OR3)z forming a O-glycosidic bond with Gn; R2 = C6-22 linear or branched alkyl, alkenyl, or alkylphenyl; R3 = C2-4 alkylene; z = 0-20; R1
     = C2-4 alkylene forming an ether bond with a nonglycosidic OH-derived O at
     one end of the terminus and an ether bond with B at the other end of the
     terminus; x = 0-10 representing (the total mol number of alkylene oxide added to the nonglycosidic OH's in the C5-6 reducing sugar or its condensate)/\gamma;
     y = number of nonglycosidic OH's in the C5-6 reducing sugar or its
     condensate; B = H, CH2CHXCN; at least one of y B groups = CH2CHXCN; X = H,
     Me) are prepared by reaction of A(Gn)[(R10)xH)y with CH:CXCN. Thus, 73.1 g
     acrylonitrile and 5 mL aqueous solution of 0.9 g KOH were added to a DMF
solution of
                           Japanese
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
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                                  DATE
                                               APPLICATION NO.
                                                                        DATE
     JP 03294288
                                  19911225
                                               JP 1990-97341
                           'A2
                                                                        19900412
PRIORITY APPLN. INFO .:
                                               JP 1990-97341
                                                                        19900412
     Entered STN: 13 Jun 1992
     A(Gm)[(R10)xB]y[G = C5- or C6-reducing sugar residue (sugar residue)]
     excluding both the Hs of the non-glycosidic OHs and those of the
     glycosidic OHs); m = condensation degree (1-10); A = R2(OR3)z linked with
     Gm in a glycosidic linkage; R2 = C1-22 alkyl, alkenyl, alkynyl,
     alkylphenyl; R3 = C2-4 alkylene; z = 0-20; R1 = C2-4 alkylene, one end of
     which connects with a non-glycosidic 0 of the Gm residue and the other end
     forms an ether linkage with B; x = 0-10; y = number of non-glycosidic 0 of
     Gm; B = H; 2,3-dihydroxypropyl] were prepared as surfactants. Lauryl alc.
     was heated with glucose and p-toluenesulfonic acid monohydrate at
     100° to give lauryl glucoside with a condensation degree of 1.25.
     This product was heated with 2,3-epoxy-1-propanol in dioxane containing Et3N
     at 40° for 3 h to give a 2,3-dihydroxypropylated lauryl glucoside
     with a substitution degree of 1.0.
     ICM C07H015-08
     B01F017-56
     33-3 (Carbohydrates)
     Section cross-reference(s): 46
     hydroxypropylated alkyl glycoside; surfactant hydroxypropylated
     alkyl glycoside
     Surfactants
        (dihydroxypropylated alkyl glycosides)
     Glycosides
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (alkyl, dihydroxypropyl ethers, preparation of, as surfactants
IT
     141472-96-0P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of, as surfactant)
     141472-96-0P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of, as surfactant) .
     141472-96-0 HCAPLUS
     β-D-Glucopyranoside, dodecyl mono-O-(2-hydroxypropyl)- (9CI)
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INDEX NAME)

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